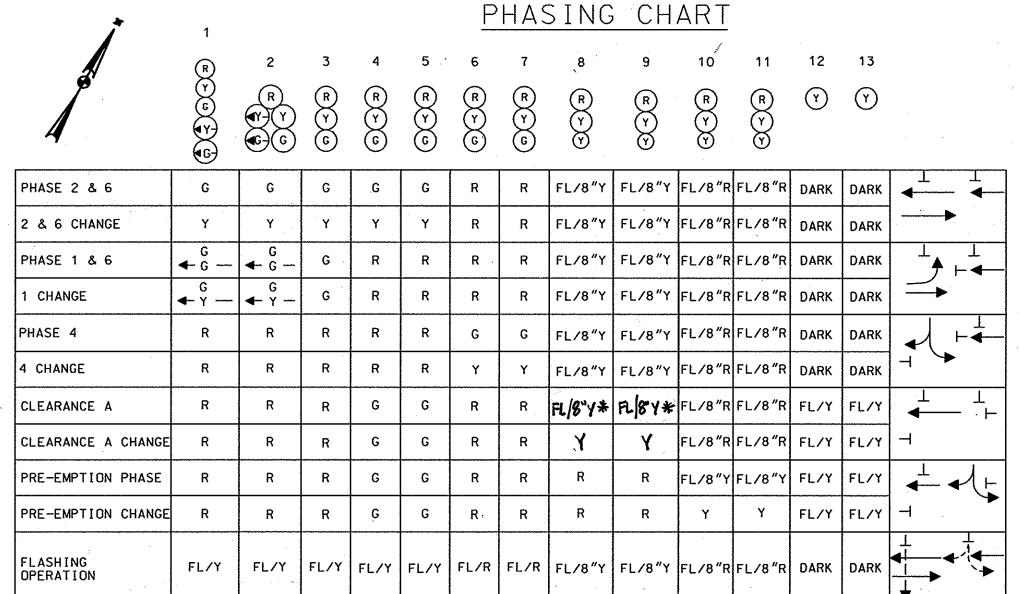
PROJECT DESCRIPTION PHASING CHART EQUIPMENT LIST "B" THIS PROJECT INVOLVES THE INSTALLATION OF A NEW FULLY-TRAFFIC-ACTUATED B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR. SIGNAL AT THE INTERSECTION OF MD 32 AND FREEDOM AVE IN CARROLL COUNTY. IN ADDITION, A FIRE HOUSE SIGNAL WILL BE INSTALLED FOR THE SYKESVILLE ITEM NO. DESCRIPTION QUANTITY RYG RYG R Y G FREEDOM DISTRICT FIRE DEPARTMENT. THE EXISTING HIB ALONG SB MD 32 WILL MAINTENANCE OF TRAFFIC BE UPDATED WITH A NEW FY SIGN AND NEW LED SIGNAL HEADS. THE EXISTING HIB TEST PIT EXCAVATION CY 3 ALONG NB MD 32 WILL BE REMOVED. MD 32 IS ASSUMED TO RUN IN A NORTH-SOUTH F&I 5" WHITE OR YELLOW PERMANENT PREFORMED 7390 DIRECTION. INTERSECTION OPERATION THERMOPLASTIC PAVEMENT MARKINGS PHASE 2 & 6 FL/8"Y | FL/8"Y | FL/8"R | FL/8"R REMOVAL OF EXISTING PERMANENT PAVEMENT LINE 4415 THE MD 32 @ FREEDOM AVE. INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE 2 & 6 CHANGE | FL/8"Y | FL/8"Y | FL/8"R | FL/8"R | MARKINGS - ANY WIDTH FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED FOR NORTH-BOUND MD 32. THE 8" YELLOW SIGNAL HEADS AT THE FIRE HOUSE SIGNAL PHASE 1 & 6 THERMOPLASTIC PAVEMENT MARKING WILL HAVE THE CAPABILITY TO 'QUICK FLASH' WHEN THE FIRE PRE-EMPTION CALL F&I HEAT APPLIED WHITE PERMANENT PREFORMED CHANGE IS PLACED. THERMOPLASTIC PAVEMENT MARKING ARROWS CONTROLLER REQUIREMENTS F&I 12 INCH LED SIGNAL HEAD SECTION PHASE 4 | FL/8"Y | FL/8"Y | FL/8"R | FL/8"R | DARK | DARK F&I 8 INCH LED SIGNAL HEAD SECTION INSTALL A FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER, FL/8"Y | FL/8"Y | FL/8"R | FL/8"R | DARK | DARK | 4 CHANGE VIDEO DETECTION INTERFACE EQUIPMENT, INTERSECTION MONITOR WITH BATTERY F&I 20' LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE FL/8"Y* FL/8" FL/8" FL/8" FL/Y FL/Y BACK-UP FOR PHONE DROP, FOUR CHANNEL LOOP DETECTOR AMPLIFIER RACK AND CLEARANCE A F&I BREAKAWAY PEDESTAL POLE (ANY SIZE) ASSOCIATED HARNESS HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET. F&I NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE CLEARANCE A CHANGE G SPECIAL NOTE UP TO 1000' PRE-EMPTION PHASE R FL/8"Y FL/8"Y FL/Y FL/Y REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT F&I TWIN MAST ARM POLE & TWIN 50'/70' MAST ARMS ANY SNYDER OF SHA AT (410)787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. EΑ PRE-EMPTION CHANGE 'T' DIMENSION THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, F&I TWIN MAST ARM POLE & TWIN 50'/50' MAST ARMS ANY EΑ ZIP CODE, AND PHONE NUMBER. FLASHING OPERATION 'T' DIMENSION CONTACT PERSONS FOR DISTRICT # 7 ARE AS FOLLOWS: F&I VIDEO DETECTION CAMERA AND CABLE UP TO 500' F&I SCHEDULE 80 RIGID PVC CONDUIT UP TO 4"- TRENCHED LF * USE QUICKFLASH FOR SIGNAL HEADS 8 AND 9 DURING CLEARANCE 'A' MR. RAY JOHNSON MS. ANDREA ABEND LF F&I SCHEDULE 80 RIGID PVC CONDUIT UP TO 4"- BORED 80 MR. JOHN CONCANNON UTILITY ENGINEER ASSISTANT DISTRICT F&I WOOD SIGN SUPPORTS UP TO 4"X6" ASSISTANT DISTRICT GENERAL NOTES ENGINEER-MAINTENANCE PHONE: (301) 624-8115 8039 INSTALL OVERHEAD OR GROUND MOUNTED SIGNS (INCLUDING SF 96.8 ENGINEER-TRAFFIC ALL HARDWARE) PHONE: (301) 624-8105 PHONE: (301) 624-8141 F&I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE F&I METERED SERVICE PEDESTAL EMBEDDED 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION. CONTACT PERSONS FOR OOTS ARE AS FOLLOWS: F&I ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN 35 F&I ELECTRICAL HANDHOLE EA MR. ROBERT SNYDER MR. RICHARD L. DAFF, SR. APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE. F&I ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG) LF 1000 ASSISTANT DIVISION CHIEF CHIEF, TRAFFIC OPERATIONS F&I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) 1655 TRAFFIC OPERATIONS 4. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. DIVISION F&I ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG) LF 475 410-787-7630 PHONE: (410) 787-7630 F&I ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TC LF 630 F&I PUSHBUTTON EA MR. EUGENE BAILEY MR. ED RODENHIZER INSTALL CONTROLLER AND CABINET - BASE MOUNT EΑ CHIEF, SIGN OPERATIONS CHIEF. SIGNAL OPERATIONS 410-787-7676 410-787-7650 MAY BE RESOLVED. EQUIPMENT LIST "C" THE POWER COMPANY IS: C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND RETURNED TO SHA. THE EXISTING CONTROLLER AND ASSOCIATED EQUIPMENT TO BE REMOVED BY THE CONTRACTOR GAS & ELECTRIC NEW BUSINESS DEPARTMENT SHALL BE RETURNED TO SHA. ALL OTHER MATERIALS AND EQUIPMENT REMOVED BY THE CONTRACTOR 410-850-4620 EQUIPMENT LIST "A" SHALL BECOME THE PROPERTY OF THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT MR. ED RODENHIZER 72 HOURS PROIR TO CONSTRUCTION. A. EQUIPMENT TO BE SUPPLIED BY THE SHA. WIRING DIAGRAM ITEM NO. DESCRIPTION UNIT QUANTITY 9000 NEMA SIZE 6 CABINET AND CONTROLLER EΑ 9016 FOUR CHANNEL LOOP DETECTOR AMPLIFIER, RACK MOUNT EΑ A.B.D.G.H.K.M.P.Q.— T.U.V.W.X.Y 9086 VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS EA 1 -H.K.S.Z 9570 SHEET ALUMINUM SIGNS - GROUND MOUNT SF 50 CONSISTING OF: -T,U,EX-SB A,B,D,G,H,K,-M,X,Y,Z 2 - D95-25 (24" X 24") - GROUND MOUNT EX-SB rEX-SB 2 - W3-3 (36" X 36") FY- GROUND MOUNT $2 - D - 3(3) (72" \times 24") - GROUND MOUNT$ £ EX−SB ₩ EX-SB 9571 SHEET ALUMINUM SIGNS - POLE/MAST ARM MOUNT SF 46.8 M.EX-SB-CONSISTING OF: ∕-B.C.D.E -P.Q.T. U.V.W 1 - D-3(1) (VAR. X 16") - MAST ARM MOUNT 1 - D-3(1) (78" X 16") - MAST ARM MOUNT 1 - M95-1 (78" X 24") - MAST ARM MOUNT H,K,M,S,-T,U,X,Y 1 - R3-5(R) (30" X 36") - MAST ARM MOUNT B,C,D,P--B.D.G.H.K.M.P.Q. R.S.T.U.V.W.X.Y.Z 1 - W11-8 (36" X 36") FY - PEDESTAL POLE MOUNT V . W -

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ľ		WIRING	KEY	
Ì	A.B.G	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	AA	1-CONDUCTOR ELECTRICAL CABLE NO.4 AWG - THHN/THWN (3 RUNS)
	C.D.E.F.H. J.K.L.M	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	EX-SB	EXISTING 5-CONDUCTOR (NO.14 AWG) CABLES FOR EXISTING HIB'S ALONG NB AND SB MD 32
	X,Y	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
	R.S	2-CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TC	PS	UNDERGROUND POWER SERVICE TO BE INSTALLED BY BGE
	P.Q	VIDEO DETECTION CABLE	PD	UNDERGROUND PHONE SERVICE
	T,U,V,W	NON-INVASIVE DETECTOR	- -	TO BE INSTALLED BY VERIZON
	·	LEAD-IN CABLE	, Ж	GROUND ROD



- 1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE
- 5. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT
- 6. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03. MD 818.01. MD 818.02. MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

